

## **Wabaunsee County**

## Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors 5/24/2016

Using the most recent IMPLAN data available (2014) adjusted for 2016, 16 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Wabaunsee County economy.<sup>1</sup>

These 16 sectors have a total direct output of approximately **\$829.4 million** and support **173.2 jobs** in Wabaunsee County. Running the model for all 16 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Wabaunsee County Economy								
Impact Type <sup>2</sup>	Employment	% Employment	Total Value Added <sup>3</sup>	Total Value Added % of Gross Regional Product <sup>4</sup>	Output <sup>5</sup>	Output % of Gross Regional Product		
Direct Effect	829.4	29.34%	\$63,186,510.83	40.49%	\$173,192,219.28	110.99%		
Indirect Effect	65.1	2.30%	\$3,716,313.07	2.38%	\$8,510,347.04	5.45%		
Induced Effect	52.9	1.87%	\$3,652,756.75	2.34%	\$6,834,899.92	4.38%		
Total Effect	947.5	33.52%	\$70,555,580.65	45.21%	\$188,537,466.23	120.82%		

As shown in the above table, agriculture, food, and food processing sectors support 947.5 jobs, or 33.52% of the entire workforce in the county. These sectors provide a total economic contribution of approximately \$188.5 million, roughly 120.82% of the economy.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 16 agriculture, food, and food processing sectors is approximately \$70.6 million, or 45.21% of the GRP. This indicates that personal income, business income, and taxes generated by these sectors account for 45.21% of the total economy.

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

- 3 Value added = labor income + indirect business taxes + other property type income.
- 4 GRP = final demand of households + governments expenditures + capital + exports imports institutional sales.
- 5 Output = intermediate inputs + value added.

<sup>1</sup> Article on building a contribution analysis in IMPLAN that avoids double counting: http://www.implan.com/index.php?option=com\_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

<sup>2</sup> Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **538.7 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Wabaunsee County.

Top Ten Sectors by Employment					
Sector	Total Employment	Total Output			
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	538.7	\$58,668,922.30			
Meat processed from carcasses	91.5	\$43,986,763.99			
Canned fruits and vegetables manufacturing	56.4	\$29,050,968.46			
All other crop farming	49.8	\$3,858,292.24			
Dairy cattle and milk production	30.1	\$15,406,764.95			
Grain farming	22.1	\$8,129,486.37			
Landscape and horticultural services	17.7	\$734,780.35			
Truck transportation	16.9	\$2,408,200.50			
Wholesale trade	11.5	\$2,082,404.94			
Monetary authorities and depository credit intermediation	9.5	\$1,484,118.28			

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately \$58.7 million to the Wabaunsee County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Sectors by Output					
Sector	Total Employment	Total Output			
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	538.7	\$58,668,922.30			
Meat processed from carcasses	91.5	\$43,986,763.99			
Canned fruits and vegetables manufacturing	56.4	\$29,050,968.46			
Dairy cattle and milk production	30.1	\$15,406,764.95			
Oilseed farming	7.4	\$8,455,897.63			
Grain farming	22.1	\$8,129,486.37			
All other crop farming	49.8	\$3,858,292.24			
Animal, except poultry, slaughtering	4.9	\$3,014,188.12			
Owner-occupied dwellings	0.0	\$2,793,729.41			
Truck transportation	16.9	\$2,408,200.50			

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Wabaunsee County economy.

All Agriculture, Food, and Food Processing Sectors				
Sector	Total Employment	Total Output		
Oilseed farming	7.4	\$8,455,897.63		
Grain farming	22.1	\$8,129,486.37		
Vegetable and melon farming	0.2	\$61,408.19		
Fruit farming	1.1	\$157,668.37		
Tree nut farming	0.0	\$6,640.10		
Greenhouse, nursery, and floriculture production	4.5	\$1,042,450.46		
All other crop farming	49.8	\$3,858,292.24		
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	538.7	\$58,668,922.30		
Dairy cattle and milk production	30.1	\$15,406,764.95		
Poultry and egg production	0.1	\$71,064.03		
Animal production, except cattle and poultry and eggs	4.2	\$486,002.15		
Canned fruits and vegetables manufacturing	56.4	\$29,050,968.46		
Animal, except poultry, slaughtering	4.9	\$3,014,188.12		
Meat processed from carcasses	91.5	\$43,986,763.99		
Bread and bakery product, except frozen, manufacturing	0.6	\$60,921.56		
Landscape and horticultural services	17.7	\$734,780.35		

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Wabaunsee County, the retail sector was omitted.